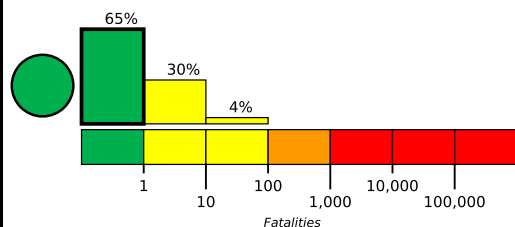# M 6.0, 58 km W of Abra Pampa, Argentina

Origin Time: 2022-02-22 06:12:49 UTC (Tue 03:12:49 local)
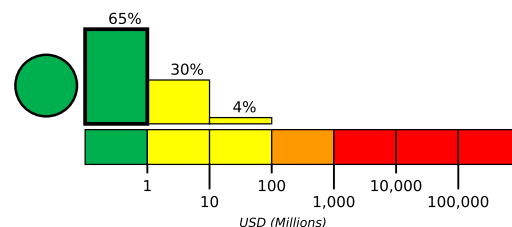Location: 22.6625° S 66.2673° W Depth: 242.3 km

PAGER
Version 5

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
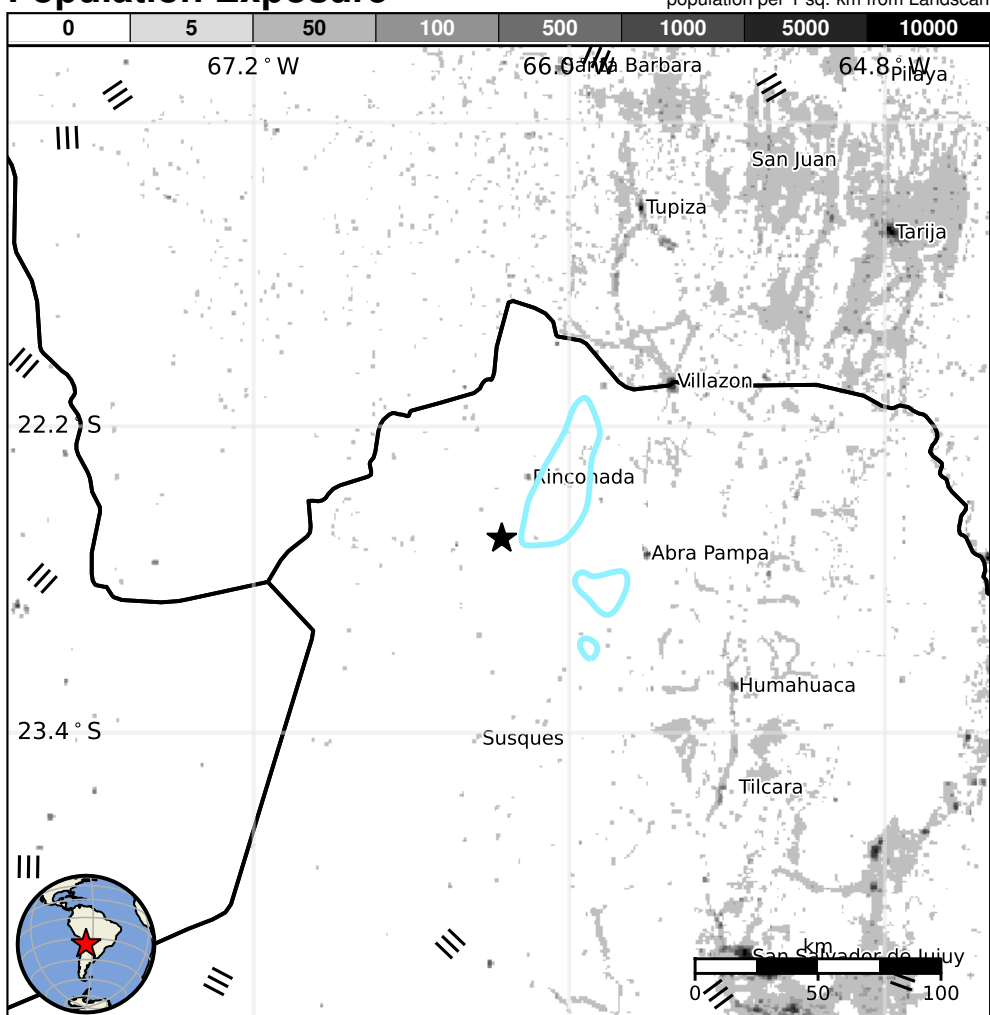
65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	1,309k*	63k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

| 0 | 5 | 50 | 100 | 500 | 1000 | 5000 | 10000 |

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1976-11-30	357	7.5	VIII(5k)	1
1974-07-01	177	6.5	VIII(2k)	–
2007-11-14	375	7.7	VII(33k)	2

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	**Rinconada**	**<1k**
IV	**Villazon**	**30k**
IV	Santa Catalina	<1k
IV	**Abra Pampa**	**9k**
III	La Quiaca	15k
III	**Susques**	**<1k**
III	**San Salvador de Jujuy**	**306k**
III	**Tarija**	**159k**
III	Libertador General San Martin	49k
III	Palpala	48k
III	San Pedro	58k

bold cities appear on map.   (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.
Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us7000gmw3#pager

Event ID: us7000gmw3